

 ISOICO  SLT INTERNATIONAL	 PETROPARS	SOUTH PARS GAS FIELD DEVELOPMENT PHASE 11 EPCI Contract for Topside, Ancillaries and Tripods (SP11A)	 N.I.O.C. Pars Oil & Gas Company
SP11-10-D-15-3-310-D1	Material Requisition for Earthing and Lightning Protection and Accessories	Page 1 of 13 Class: 2	

Material Requisition for Earthing and Lightning Protection and Accessories

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D1	Approved for Construction	20.Jan.2025	R.Pourbordbari	M.Karimi	SH.Afsharpanah	K. Mehrdadi	
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Rev.	Purpose of Issue	Date	Prep'd	Check'd	App'd	App'd	COMPANY Approval
			ENGINEER			CONTRACTOR	

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1. INTRODUCTION

1.1 General

The South Pars field is located in the Persian Gulf approximately 130 km South West of Assaluyeh and 175km West of Kish Island. The South Pars Phase 11 development facilities comprise 2 wellhead platforms named SP11A and SP11B and located around 70m water depth, two 32" sea lines associated with their 4" piggy-back returned lines, exporting the gas to the existing onshore plants. The Phase 11 development of the South Pars gas field (SP11A and SP11B) is designed for a production of 2000 MMSCFD of reservoir fluid (1000 MMSCFD for each SP11A and SP11B).

The development of SP11A is based on new 15 slots Wellhead platform and sea-line. The sea-line from SP11A Wellhead Platform (SPD11A) will send SP11A production to SP12 onshore facilities in TOMBAK via the 32" sea line. When the field starts to be depleted, a compression phase will be implemented (out of Project SOW).

In addition to the wellhead platform (SPD), a Relief platform (RP), equipped with a vertical Flare, will be connected by 2 bridges (BR1 & BR2) to the SP11A platform for personnel access. One Bridge Support Platform (BSP), supports the two bridges that allow access from SPD to RP. Typically, The SP11A Platform consists of:

1. The wellhead platform dedicated to drilling with a jack-up rig. [SPD]
2. The Relief platform, which is equipped with a vertical Flare. [RP]
3. The Bridge Support Platform [BSP]
4. The two Bridges, which connect SPD to RP through BSP [BR1, BR2]

Iran Shipbuilding & Offshore Industries Complex Co. known as ISOICO (CONTRACTOR) has been awarded to conduct and to perform the Engineering, Procurement, Supply, Fabrication, Construction, Load Out, Sea Fastening, Transportation and Installation of the SP11A Wellhead topside, ancillaries and Tripods and the commissioning of installed equipment on it, hereinafter referred to as "Project".

Scope of SLT International (ENGINEER) involvement in the Project is detail design engineering and procurement engineering services.

1.2 Purpose of the Document

The purpose of this document is to define the minimum technical requirements for the engineering, fabrication, procurement, supply of Earthing and Lightning Protection and Accessories.

1.3 Key Definitions

OWNER	National Iranian Oil COMPANY (NIOC) Pars Oil and Gas COMPANY (POGC)
COMPANY	Petropars Ltd. (PPL)
CONTRACTOR	Iran Shipbuilding & Offshore Industries Complex Co. (ISOICO)
ENGINEER	SLT International;

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VENDOR	Shall be considered to be synonymous with the term SUPPLIER as defined below
SUPPLIER	Firm or corporation who submit a quotation for the supply of the equipment
PURCHASER	Party who receives the quotation from the SUPPLIER

1.4 Abbreviations

DDE	Detailed Design Engineering;
SOW	Scope Of Work;
TBA	To Be Advised;
TBC	To Be Confirmed;
WHP	Well Head Platform;
AC	Alternating Current
CT	Current Transformers
DC	Direct Current
DLE	Dry Low Emissions
DG	Diesel Generator Package XX20-U-101 A or B
DVT	Design Validation Test
ESD	Emergency Shutdown
FAT	Factory Acceptance Test
FGS	Fire and Gas System
GPA	General Platform Alarm
HVAC	Heating Ventilation and Air Conditioning
ICSS	Integrated Control and Safety Systems (Global) including PCS, PSS, ESD & Fire and Gas system
ITP	Inspection and Test Plan
NAVAIDS	Navigation Aids
HMI	Human Machine Interface
PCS	Process Control System
PDC	Power Distribution Control
PGCS	Power Generation Control System
PLC	Programmable Logic Controller
PSS	Plant Safety System
SPIR	Spare Parts Interchangeably Record
SSS	Safety Shutdown System

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UCP	Unit Control Panel
UPS	Uninterruptible Power Supply
VDRS	VENDOR Document Requirement Schedule
WP	Wellhead Platform
WPTR	Wellhead Platform Technical Room

1.5 References

All work specified shall be in accordance with all applicable sections of the latest edition of the Standards, Professional Documents, Regulations and Codes (and their current amendments) listed below and in the applicable TOTAL General Specifications, and shall form an integral part of this project.

1.5.1 Project References

Item	Doc Number	Rev	Description
[1]	SP11-10-D-15-9-266	D0	Electrical Material Take-Off for Earthing and Lightning Materials
[2]	SP11-10-D-15-4-040	D1	Specification for Earthing and Lightning Protection
[3]	SP11-10-D-10-0-001	D1	Applicable Codes & Standards
[4]	SP11-10-D-10-4-001	D1	Specification for Packing, Marking and Shipping
[5]	SP11-10-D-10-4-006	D1	General Specification for Inspection and Testing
[6]	SP11-10-D-10-4-005	D5	Specification for Equipment Design Conditions
[7]	SP11-10-D-21-4-021	D2	Specification for Painting & Coating
[8]	SP11-10-D-10-4-002	D4	Specification for Spare Parts Requirements
[9]	SP11-10-D-10-4-004	D3	Minimum Requirements for Vendor Documents

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2. FACILITY DESCRIPTION

The SP11A gas field shall be developed to produce 1000 MMSCFD reservoir fluid to supply gas to Tombak (SP 12 part) with a 32" export pipeline.

The SPD11A wellhead platform consist of a four-legged jacket substructure and a topside consist of a truss-framed structure. Facilities to be designed during the engineering phase are as follows.

2.1 Jacket Tripods

Tripods facilities to be installed at SP11A location are as follows:

- Tripod support structure for Bridge Support Platform, including piling (BSP 11A);
- Tripod support structure for Flare Support Platform, including piling (RP 11A);

2.2 Topside and ancillaries

A brief description of topside facilities to be installation at SPD11A location is as follows:

- 1) One WHP (SPD11A) with 15 slots; with below main equipment:
 - Well Heads;
 - Production/Test manifold;
 - Test separator;
 - Export metering system;
 - Scraper launcher;
 - HP relief KO drum;
 - Closed drain/LP flare drum;
 - Open drain system;
- 2) Associated utilities (Diesel, MEG, Methanol, KHI, Chemicals, Nitrogen, Fresh Water);
- 3) One Relief Platform (RP), including deck and flare tower, installed on the RP11A being connected by bridge to BSP11A;
- 4) One Deck installed on the BSP11A, being connected by bridges to the wellhead platform and RP11A;
- 5) Two bridges connecting SPD11A to BSP11A and BSP to RP11A;

2.3 Onshore Facilities

An Onshore Facility after sealine onshore tie-in that includes:

- Valve station;
- Pig Receiver;
- Onshore pipeline to Phase 12 Plant;
- ICSS and Telecommunication;

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3. SCOPE OF SUPPLY

Supplier's scope of work / supply shall be applicable to SP11A platform in accordance with table below.

- Vendor's scope of work and supply shall include to design, engineering, manufacture, inspection, testing, preparation, painting, preservation and packaging for shipment and loading into transport vehicle at manufacturer's shop in accordance with the project references. Vendor shall be responsible of the supply of these packages in all respects for safe and reliable operation of the package.

Item	Item Description	Quantity
A	Scope of Supply & Work for Main Items	
According to Material Take off for Electrical Material Take-Off for Earthing and Lightning Materials (SP11-10-D-15-9-266) and Specification for Earthing and Lightning Protection (SP11-10-D-15-4-040) document.		
B	Services	
B.1	Engineering Services for all items in supply Scope of VENDOR as per SDRS	1 Lot
B.2	Factory Acceptance Test (FAT)	1 Lot
B.3	Packing, Preservation and Forwarding	1 Lot
B.4	Preparation for Shipment	1 Lot

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4. PARTICULAR REQUIREMENTS

4.1 Language

All documents shall be submitted in the English language unless stated otherwise in the applicable documentation.

4.2 Units

All measurements and units shall be in SI units excepted for pressure unit (bar) and pipe diameter (inch or mm). Where necessary alternative units may be indicated in brackets behind the SI units.

4.3 Inspection and Test

Reference shall be made to General Specification for Inspection and Testing (SP11-10-D-10-4-006).

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5. DOCUMENT AND DRAWINGS REQUIRED FOR THE SUPPLY OF PACKAGE

5.1 SUPPLIER Document Requirements Schedule (SDRS)

The SUPPLIER's Documents Requirement Schedule (SDRS) defines the minimum requirements in terms of documentation to be prepared by SUPPLIER, both at tender stage and during the execution of the Purchase Order defined as follows:

STATUS CODE:	IFR) ISSUED FOR REVIEW IFA) ISSUED FOR ACCEPTANCE AFC) ACCEPTED FOR CONSTRUCTION ASB) AS BUILT
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DOC CODE (1)	DESCRIPTION	WITH BID	FIRST ISSUE			FINAL ISSUE (5)
		Tick	Issue Date (2)	Purpose (3)	Quantity Type (4)	Quantity Type (4)
A	Project Control Management					
A0001	List of Vendor's documents and drawings (Supplier Data Requirements List, SDRL)	√	+2W	IFR	E	5C + 4 CD
A0002	Equipment brochure	√	+12W	IFR	E	
B	Engineering					
B0001	Equipment data sheet	√	+4W	IFR	E	5C + 4 CD
C	Procurement					
C0001	Packing list		1M before delivery	IFR	E	5C + 4 CD
D	Fabrication					
D0001						
E	Inspection & Tests					
E0001	Material certificates		2M before delivery	IFR	E	5C + 4 CD
F	Final Dossier					
F0001	Compilation of all final reports, As-built drawings,		1M after	Final	E	5C + 4

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DOC CODE (1)	DESCRIPTION	WITH BID	FIRST ISSUE			FINAL ISSUE (5)
		Tick	Issue Date (2)	Purpose (3)	Quantity Type (4)	Quantity Type (4)
*	certificates (Material certificates, Ex. Proof certificates, Test reports and etc, if applicable)		delivery			CD

NOTES:

- * = Priority documents subject to penalization in term of payment
- ISSUE DATE; number of D = Days / W = Weeks / M = Months after purchase order effective date (unless otherwise specified)
- PURPOSE; IFR = Issue for review and comments, Info = Issue for information
- QUANTITY; per type; C = Copy, E = Electronic file, CD = CD ROM.
- FINAL ISSUE; Document without comments (with document status = 3)
- For Final Document Dossier Requirement, please refer to specification "Supplier's Drawing and Document Specification"
- All documents returned to Vendor with comments shall be re-issued after implementing comments
- All documents shall be in English language.
- Vendor Quality Assurance: The Supplier shall submit (a) ISO 9001-2008 Official Certification (b) Quality Manual (c) Project Quality Plan.
- All documents shall be delivered electronically.
- 3 copies of documents with electronic file shall be provided as part of Bid submission.

5.2 Data Dossier/Book

Data Dossier/book shall contain:

- Data book specification
- Manufacturing record book
- Independent verification body
- Inspection release notes
- Traceability
- Certifications to accompany goods
- Numbering system

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7. PACKING, PRESERVATION AND PREPARATION FOR SHIPMENT

See “Specification for Packing, Marking and Shipping”, Doc. No.: SP11-10-D-10-4-001 for further information.0

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Appendix A

Deviation Form

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This Form shall be completely filled and submitted along with VENDOR's bid. If no deviation is required, VENDOR shall fill "NIL" across the page. Non-compliant bid is liable to be rejected. VENDOR shall date/sign/stamp each page of this Form.

Note 1: A: deviation accepted

R: deviation rejected

CA: conditional acceptance (mandatory: conditions to be stated separately referring to Deviation N°)

N°	Document N° & Clause N°	Requirement	Acceptance / Rejection by PURCHASER	
			Deviation with justification.	(note 1)

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Appendix B

Technical Questionnaire

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This questionnaire shall be completely filled and submitted along with VENDOR's bid. Non-compliant bid is liable to be rejected. VENDOR shall date/sign/stamp each page of this questionnaire.
VENDOR shall answer by **X** in the appropriate bracket.

Technical Questionnaire	
General	
YES [] NO []	Does bid include all documents and drawings as required by SDRS? (If "No", details to be given)
YES [] NO []	Is Customers reference list furnished with bid?
YES [] NO []	Have Catalogues and relevant technical documentation (all in English) been enclosed with bid?
YES [] NO []	Is VENDOR's QA system ISO 9001:2015 certified?
Scope of Supply	
YES [] NO []	Full Compliance Is the VENDOR in total agreement with its scope of supply as defined in the Requisition?
YES [] NO [] YES [] NO [] YES [] NO [] YES [] NO [] YES [] NO []	Deviations If not in full compliance, indicate deviation required in the following: Requisition Data Sheets Specifications SDRS Other If answer is 'YES' for any of the above, exact deviation required shall be described in detail indicating the appropriate clause(s) and using the "Deviation Form". If no deviation is indicated, it will be assumed that all the requirements of the Requisition shall be complied with and no deviation whatsoever shall be accepted after Order.
YES [] NO []	In case total system is in VENDOR's scope of supply, are there any items VENDOR wishes to add to achieve total system completion in all respects? (If "Yes", details to be given)
YES [] NO [] YES [] NO [] YES [] NO []	Spare parts Does bid includes: Construction spare parts? Commissioning spare parts? Start-up spare parts?

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Technical Questionnaire	
YES [] NO [] N/A []	Capital spare parts?
YES [] NO []	List for 2 years operation?
YES [] NO [] N/A []	Installation Does bid include: Special tools (if any)?
YES [] NO [] N/A []	Mounting accessories (if any)?
YES [] NO [] N/A []	Special installation instructions (if any)?
YES [] NO [] N/A []	Special installation requirements (power, cable,...) (if any)?
YES [] NO [] N/A []	Special Calibration equipment (if any)?
YES [] NO [] N/A []	Supervision of installation?
Inspection	
YES [] NO []	Does bid describe in detail inspection activities carried out by Vendor? (If "No", details to be given)
	Can Vendor furnish certificates from competent Certifying Authority for purposes listed below? (If "Yes", Applicable code and Name of Certifying Authority to be given)
YES [] NO [] N/A []	Explosion proof?
YES [] NO [] N/A []	Intrinsic. Safe?
YES [] NO [] N/A []	Weather proof?
YES [] NO [] N/A []	Fire Safe Valve?
YES [] NO [] N/A []	Fire Resistant Cable?
YES [] NO [] N/A []	Flame Retardant Cable?
YES [] NO [] N/A []	Others (pls. specify)

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Appendix C

SPARE PARTS AND INTERCHANGEABILITY

RECORD - SPIR



Spare Parts List and Interchangeability Record (SPIR)

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Appendix D

Document Submission Review Category

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Supplier documentation shall, as a minimum, be provided in accordance with the SDRS attached as "SUPPLIER Document Requirements Schedule (SDRS)" for Purchaser review. The SDRS to be submitted by supplier in various stage (Bid / Supplier Data Review/ Final Data Books).

Document submission review categories are as follows which is stamped on cover page of each document:

Document Submission Review Categories	
Category A	Approved. Supplier may proceed.
Category B	Approved to proceed except as noted. Supplier may proceed once comments implement
Category C	Rejected. Reprepare and resubmit.
Category D	For review/ information. Supplier may proceed.
Category E	Not reviewed. Not required by SLT International.

The following major points should be noted:

- All documents issued to Purchaser MUST be issued via transmittal.
- The transmittal must be clearly indicating the P.O. No., Supplier reference, date of issue, list of all documents showing document number/title/document code/No. of pages/revision No./target date for issuing of the all-listed documents.
- Cover sheet of each document attached to the transmittal MUST clearly refer the SDRS codes and SDRS supplied in the MR and MUST provide the following information on cover sheet of each document:
 - a. Supplier name and logo
 - b. Document/ Equipment title
 - c. Equipment item No.
 - d. Document designation code (as per SDRS)
 - e. Project name
 - f. Company name
 - g. Purchaser name
 - h. Date and purpose of issue
- Drawings and documentation are only accepted by Purchaser when signed by Supplier as Checked and Approved for Construction.
- All documentation submitted post award defined within the SDRS shall clearly reference the appropriate SDRS code on the front or title page of the document.
- Drawings shall show all necessary dimensions and details required for interface information and installation.
- Required Clearances for maintenance and weight/ dimension of biggest single piece item shall be shown.
- Drawings and documents shall be clear and completely legible with all text in the English language.

Supplier shall submit all major documents and drawings containing interface information for Purchaser approval according to the SDRS but in any case, prior to start of manufacturing.

- All revised drawings and documents shall clearly show revisions with the issue date and Supplier's checked and approved signatures.
- Drawings to be AutoCAD, format other documentation to be in Microsoft Office Professional format (Excel/ Word/ PowerPoint / Access) and PDF.
- Purchaser's documentation template & numbering system is to be used for all Supplier generated documentation. The Supplier's logo and numbering can be shown in addition.

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- Drawings, documentation and certification requiring an independent certifying authority to approve shall be done at the Supplier's initiation, direction and expense.

All final drawings, manuals and computer-based training information for the Supplier's equipment (i.e.: Operations and Maintenance manuals) shall be provided. Greater details are included within the SDRS

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Appendix E

Pre-commissioning, Commissioning and Hook-up

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The Supplier shall provide Pre-commissioning, Commissioning and Hook-up equipment and services in accordance with documentation issued to the Supplier by Purchaser for tendering purposes and all subsequent pre-award negotiations, clarifications and deviations agreed with Purchaser during the tendering period.

The Supplier shall quote, if required for the service of competent engineer(s) and/ or technician(s) to assist in installation, commissioning and testing of the equipment at site on a per diem basis.

The quoted rate shall be irrespective of duration and frequency and the supplier shall guarantee the services of the engineer(s) and technician(s) on the specified date by the Purchaser.